

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/010283

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 F41B3/02

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F41B A63B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 315 030 A (MARCHANT ANDREW JAMES) 21 January 1998 (1998-01-21) page 1, line 15 - line 27; figures 1-4 page 7, line 5 -page 8, line 17 ---	1-18
X	GB 2 311 473 A (FOX DESIGN INT) 1 October 1997 (1997-10-01)  page 1, line 3 -page 3, line 26; figure 6 ---	1-5, 7-11, 13-17
X	FR 2 795 912 A (BONADONNA CLAUDE) 12 January 2001 (2001-01-12) abstract; figure 1 ---	1,2,7, 13,14
X	US 4 922 884 A (FORD JACK T) 8 May 1990 (1990-05-08) the whole document ---	1-3,7,9, 11,13-15
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

20 July 2004

Date of mailing of the international search report

26/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentkan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Jekabsons, A

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## C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	FR 2 843 451 A (AMIAUD PECHE) 13 February 2004 (2004-02-13) page 3, line 1 -page 4, line 12; figure 1 -----	1,2,7, 13,14
A	US 3 802 409 A (MIKE B ET AL) 9 April 1974 (1974-04-09) abstract; figure 1 -----	1,2,7, 13,14

# INTERNATIONAL SEARCH REPORT



Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2315030	A	21-01-1998	NONE	
GB 2311473	A	01-10-1997	NONE	
FR 2795912	A	12-01-2001	FR 2795912 A1	12-01-2001
US 4922884	A	08-05-1990	NONE	
FR 2843451	A	13-02-2004	FR 2843451 A1 EP 1389724 A1	13-02-2004 18-02-2004
US 3802409	A	09-04-1974	CA 985589 A1 JP 49062239 A	16-03-1976 17-06-1974